



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date April 14, 2021	EPA Reg No./File Symbol 87931-xx	Page 1 of 10
Applicant's/Registrant's Name & Address Raymat Materials, Inc. 440 Boulder Court, Suite 300 Pleasanton, CA 94566	Product Raymat Deltamethrin Tech	
Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product Identity and Composition	51217001	Raymat Materials, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	51217001	Raymat Materials, Inc.	OWN	
830.1620	Description of the Production Process	51217001	Raymat Materials, Inc.	OWN	
830.1650	Description of the Formulation Process				Not Required ¹
830.1670	Discussion of Formation of Impurities	51217001	Raymat Materials, Inc.	OWN	
830.1700	Preliminary Analysis	51217002	Raymat Materials, Inc.	OWN	
830.1750	Certified Limits	51217001	Raymat Materials, Inc.	OWN	
830.1800	Enforcement Analytical Method	51217002	Raymat Materials, Inc.	OWN	
830.6302	Color	51217003	Raymat Materials, Inc.	OWN	
830.6303	Physical State	51217003	Raymat Materials, Inc.	OWN	
830.6304	Odor	51217003	Raymat Materials, Inc.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	51217003 51217005	Raymat Materials, Inc. Raymat Materials, Inc.	OWN OWN	Waiver ²
830.6314	Oxidation / Reduction: Chemical Incompatibility	51217003	Raymat Materials, Inc.	OWN	
830.6315	Flammability	51217005	Raymat Materials, Inc.	OWN	Waiver ³
830.6316	Explosibility	51217005	Raymat Materials, Inc.	OWN	Waiver ⁴
830.6317	Storage Stability	51217004	Raymat Materials, Inc.	OWN	
830.6319	Miscibility	51217005	Raymat Materials, Inc.	OWN	Not applicable ⁵
830.6320	Corrosion Characteristics	51217004	Raymat Materials, Inc.	OWN	
830.6321	Dielectric Breakdown Voltage				Not required
830.7000	pH	51217003	Raymat Materials, Inc.	OWN	
830.7050	UV / Visible Absorption	51217003	Raymat Materials, Inc.	OWN	
830.7100	Viscosity	51217005	Raymat Materials, Inc.	OWN	Not required ⁶
830.7200	Melting Point / Melting Range	51217003	Raymat Materials, Inc.	OWN	

Signature 	Name and Title Ann M. Tillman, PhD Agent	Date 4/14/2021
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Applicant's/Registrant's Name & Address Raymat Materials, Inc. 440 Boulder Court, Suite 300 Pleasanton, CA 94566	Product Raymat Deltamethrin Tech	
Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7220	Boiling Point / Boiling Range	51217005	Raymat Materials, Inc.	OWN	Not applicable ⁷
830.7300	Density / Relative Density / Bulk Density	51217003	Raymat Materials, Inc.	OWN	
830.7370	Dissociation Constants in Water	51217005	Raymat Materials, Inc.	OWN	Waiver ⁸
830.7520	Particle Size, Fiber Length, and Diameter Distribution	51217005	Raymat Materials, Inc.	OWN	Waiver ⁹
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	51217005	Raymat Materials, Inc.	OWN/PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	51217005	Raymat Materials, Inc.	OWN/PL	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	51217005	Raymat Materials, Inc.	OWN/PL	
870.1100	Acute Oral Toxicity – rat	00098078 (AC70734)		OLD	See endnote ¹⁰
870.1200	Acute Dermal Toxicity – rat	41651020		OLD	See endnote ¹¹
870.1300	Acute Inhalation Toxicity – rat	41651021		OLD	See endnote ¹²
870.2400	Eye Irritation	41651022		OLD	See endnote ¹³
870.2500	Skin Irritation	41651023		OLD	See endnote ¹⁴
870.2600	Skin Sensitization	41651024		OLD	See endnote ¹⁵
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity				Not required ¹⁶
850.2200	Acute Avian Dietary Toxicity				Not required ¹⁷

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Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2400	Wild Mammal Toxicity				Not required / See 870 series
850.2300	Avian Reproductive Toxicity				Not required ¹⁸
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity				Not required ¹⁹
850.1010	Freshwater Invertebrate Toxicity				Not required ²⁰
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms				Not required ²¹
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)				Not required ²²
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required ²³
850.1400	Fish Early Life Stage (Freshwater)				Not required ²⁴
850.1400	Fish Early Life Stage (Saltwater)				Not required ²⁵
850.1500	Life Cycle Fish				Not required ²⁶
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity				Not required ²⁷
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required ²⁸
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required ²⁹
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required ³⁰
850.3020	Honey Bee Acute Contact Toxicity				Not required ³¹
850.3030	Honeybee Toxicity of Residues on Foliage				Not required ³²

Signature

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Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.3040	Field Testing for Pollinators				Not required ³³
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	44557901		OLD	See endnote ³⁴
870.3100	90-Day Oral: Rodent	00098103		OLD	See endnote ³⁵
870.3150	90-Day Oral: Non-Rodent	00098104		OLD	See endnote ³⁶
870.3200	21/28-Day Dermal Toxicity	42773901		OLD	See endnote ³⁷
870.3250	90-Day Dermal Toxicity				Not required ³⁸
870.3465	90-Day Inhalation Toxicity				Not required ³⁹
870.6100	28-Day Delayed Neurotoxicity – Hen				Not required
870.6200	90-Day Neurotoxicity	44557902		OLD	See endnote ⁴⁰
870.4100	Chronic Oral Rodent	44398102		OLD	See endnote ⁴¹
870.4200	Carcinogenicity	44372602 44398102		OLD OLD	See endnote ⁴²
870.3700	Reproduction / Developmental Toxicity Screening Test	41651025 45881901		OLD OLD	See endnote ⁴³
870.3800	2-Generation Reproduction: Rat	44398101		OLD	See endnote ⁴⁴
870.6300	Developmental Neurotoxicity Study	46814301		OLD	See endnote ⁴⁵
870.5100	Bacterial Reverse Mutation Test	42475902		OLD	See endnote ⁴⁶
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	41651027		OLD	See endnote ⁴⁷

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Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5385, 870.5395, 870.5450, 870.5550	In vivo Cytogenetics and Other Effects	41651028 42475902		OLD OLD	See endnote ⁴⁸
870.7485	Metabolism and Pharmacokinetics	41677401		OLD	See endnote ⁴⁹
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required ⁵⁰
870.7800	Immunotoxicity	48988205	Bayer CropScience LP	PAY	See endnote ⁵¹
875.1100	Dermal Exposure – Outdoor				Not required ⁵²
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor				Not required ⁵²
875.1400	Inhalation Exposure – Indoor				Not required
875.1500	Biological Monitoring				Not required ⁵²
875.1600	Data Reporting and Calculations				Not required ⁵²
875.1700	Product Use Information				Not required ⁵²
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues				Not required ⁵³
875.2200	Soil Residue Dissipation				Not required ⁵³
875.2400	Dermal Exposure				Not required ⁵³
875.2500	Inhalation Exposure				Not required ⁵³
875.2600	Biological Monitoring				Not required ⁵³
875.2700	Product Use Information				Not required ⁵³

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Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2800	Descriptions of Human Activity				Not required ⁵³
875.2900	Data Reporting and Calculations				Not required ⁵³
875.3000	Nondietary Ingestion Exposure				Not required ⁵³
201-1	Droplet Size Spectrum				Not required ⁵⁴
202-1	Droplet Size Spectrum				Not required ⁵⁴
850.4100	Tier 1: Seedling Emergence				Not required ⁵⁵
850.4150	Tier 1: Vegetative Vigor				Not required ⁵⁶
850.4400, 850.4500	Tier 1: Aquatic Plant Growth				Not required ⁵⁷
850.4100	Tier 2: Seedling Emergence				Not required ⁵⁵
850.4150	Tier 2: Vegetative Vigor				Not required ⁵⁶
850.4400, 850.4500	Tier 2: Aquatic Plant Growth				Not required ⁵⁷
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
850.4550	Cyanobacteria Toxicity				Not required ⁵⁸
835.2120	Hydrolysis				Not required ⁵⁹
835.2240	Photodegradation in Water				Not required ⁶⁰
835.2410	Photodegradation in Soil				Not required ⁶¹

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Applicant's/Registrant's Name & Address

Raymat Materials, Inc.
440 Boulder Court, Suite 300
Pleasanton, CA 94566

Product

Raymat Deltamethrin Tech

Ingredient Deltamethrin (CAS No.: 52918-63-5; Chemical Code: 97805)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism				Not required ⁶²
835.4200	Anaerobic Soil Metabolism				Not required ⁶³
835.4300	Aerobic Aquatic Metabolism				Not required ⁶⁴
835.4400	Anaerobic Aquatic Metabolism				Not required ⁶⁵
835.1230	Leaching / Adsorption / Desorption				Not required ⁶⁶
835.1410	Volatility – Laboratory				Not required ⁶⁷
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study				Not required ⁶⁸
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required ⁶⁹
850.6100	Environmental Chemistry Methods				Not required ⁷⁰
860 series	Residue Chemistry				Not required ⁷¹

Signature

Name and Title

Ann M. Tillman, PhD
Agent

Date

4/14/2021

Data Matrix Endnotes for Raymat Deltamethrin Tech

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- ¹ **830.1650** - These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.
- ² **830.63613** - Raymat Materials, Inc. requests a waiver from this data requirement. Raymat Deltamethrin Tech is not stored in metal containers and is not expected to come into contact with metals or metal ions during storage or use. Raymat Deltamethrin Tech is not expected to be subject to temperatures greater than 50°C after production or during storage. The accelerated stability of deltamethrin is reported in MRID 51217003 of this submission.
- ³ **830.6315** - Raymat Materials, Inc. requests a waiver from the requirement of this data requirement since Raymat Deltamethrin Tech is a solid and does not contain flammable components. Please refer to the Confidential Statement of Formula for Raymat Deltamethrin Tech.
- ⁴ **830.6316** - Raymat Materials, Inc. requests a waiver from the requirement of this study. Deltamethrin does not have the chemical bonds or functional groups associated with explosive chemicals.
- ⁵ **830.6319** - This data requirement is required when the product is an emulsifiable liquid and to be diluted with petroleum solvents. Raymat Deltamethrin Tech is a solid material and is not an emulsifiable liquid to be diluted with petroleum solvents. Therefore, this data requirement is not applicable.
- ⁶ **830.7100** - These data are required if the product is liquid. This data requirement is not applicable to Raymat Deltamethrin Tech which is a solid.
- ⁷ **830.7220** - These data are required if the product is a liquid. Raymat Deltamethrin Tech is a solid. Therefore, these data are not applicable to Raymat Deltamethrin Technical.
- ⁸ **830.7370** - Raymat Materials, Inc. requests a waiver for this data requirement since deltamethrin does not contain any functional group that would dissociate.
- ⁹ **830.7520** - Raymat Materials, Inc. requests a waiver for this data requirement. Raymat Deltamethrin Tech is not water-insoluble and is not a fibrous material.
- ¹⁰ **870.1100** – According to the June 5, 2017 Deltamethrin Draft Human Health Risk Assessment for Registration Review (DP Barcode D420609) (Human Health RA), the study cited is acceptable and satisfies the data requirement. Note: the MRID listed in the Human Health RA appears to correspond to the Accession Number; both the corresponding MRID number and Accession Number are cited.
- ¹¹ **870.1200** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ¹² **870.1300** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ¹³ **870.2400** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ¹⁴ **870.2500** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ¹⁵ **870.2600** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ¹⁶ **850.2100** – These data are not required based on the limited use pattern proposed.
- ¹⁷ **850.2200** – These data are not required based on the limited use pattern proposed.
- ¹⁸ **850.2300** – These data are not required based on the limited use pattern proposed.
- ¹⁹ **850.1075** – These data are not required based on the limited use pattern proposed.
- ²⁰ **850.1010** – These data are not required based on the limited use pattern proposed.

Data Matrix Endnotes for Raymat Deltamethrin Tech

- ²¹ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – These data are not required based on the limited use pattern proposed.
- ²² **850.1300** – These data are not required based on the limited use pattern proposed.
- ²³ **850.1350** – These data are not required based on the limited use pattern proposed.
- ²⁴ **850.1400** – These data are not required based on the limited use pattern proposed.
- ²⁵ **850.1400** – These data are not required based on the limited use pattern proposed.
- ²⁶ **850.1500** – These data are not required based on the limited use pattern proposed.
- ²⁷ **850.1710, 850.1730, 850.1850** – These data are not required based on the limited use pattern proposed.
- ²⁸ **850.1735** – These data are not required based on the limited use pattern proposed.
- ²⁹ **850.1740** – These data are not required based on the limited use pattern proposed.
- ³⁰ **N/A** – These data are not required based on the limited use pattern proposed.
- ³¹ **850.3020** – These data are not required based on the limited use pattern proposed.
- ³² **850.3030** – These data are not required based on the limited use pattern proposed.
- ³³ **850.3040** – These data are not required based on the limited use pattern proposed.
- ³⁴ **870.6200** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ³⁵ **870.3100** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ³⁶ **870.3150** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ³⁷ **870.3200** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ³⁸ **870.3250** – According to the Human Health RA, these data are not required.
- ³⁹ **870.3465** – According to the Human Health RA, these data are not required.
- ⁴⁰ **870.6200** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ⁴¹ **870.4100** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement. Chronic dog data are not cited as these data are no longer required as per 2007 changes to 40 CFR Part 158.
- ⁴² **870.4200** – According to the Human Health RA, the studies cited are acceptable and satisfy the data requirement.
- ⁴³ **870.3700** – According to the Human Health RA, the studies cited are acceptable and satisfy the data requirement.
- ⁴⁴ **870.3800** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ⁴⁵ **870.6300** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ⁴⁶ **870.5100** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ⁴⁷ **870.5300, 870.5375** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.

Data Matrix Endnotes for Raymat Deltamethrin Tech

- ⁴⁸ **870.5385, 870.5395, 870.5450, 870.5550** – According to the Human Health RA, the studies cited are acceptable and satisfy the data requirement.
- ⁴⁹ **870.7485** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement. The Human Health RA listed two studies for this data requirement (only one study is needed to satisfy the requirement). As the proposed product has a very limited use pattern with no oral exposure, these data are not, in fact, required, but one study is cited.
- ⁵⁰ **870.7600** – According to the Human Health RA, these data are not required.
- ⁵¹ **870.7800** – According to the Human Health RA, the study cited is acceptable and satisfies the data requirement.
- ⁵² **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – These data are not required based on the limited use pattern proposed.
- ⁵³ **875.2100, 875.2200, 875.2300, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – These data are not required based on the limited use pattern proposed.
- ⁵⁴ **201-1, 202-1** – These data are not required based on the limited use pattern proposed.
- ⁵⁵ **850.4100** – These data are not required based on the limited use pattern proposed.
- ⁵⁶ **850.4150** – These data are not required based on the limited use pattern proposed.
- ⁵⁷ **850.4400, 850.4500** – These data are not required based on the limited use pattern proposed.
- ⁵⁸ **850.4550** – These data are not required based on the limited use pattern proposed.
- ⁵⁹ **835.2120** – These data are not required based on the limited use pattern proposed.
- ⁶⁰ **835.2240** – These data are not required based on the limited use pattern proposed.
- ⁶¹ **835.2410** – These data are not required based on the limited use pattern proposed.
- ⁶² **835.4100** – These data are not required based on the limited use pattern proposed.
- ⁶³ **835.4200** – These data are not required based on the limited use pattern proposed.
- ⁶⁴ **835.4300** – These data are not required based on the limited use pattern proposed.
- ⁶⁵ **835.4400** – These data are not required based on the limited use pattern proposed.
- ⁶⁶ **835.1230** – These data are not required based on the limited use pattern proposed.
- ⁶⁷ **835.1410** – These data are not required based on the limited use pattern proposed.
- ⁶⁸ **835.6100** – These data are not required based on the limited use pattern proposed.
- ⁶⁹ **835.7100** – These data are not required based on the limited use pattern proposed.
- ⁷⁰ **850.6100** – These data are not required based on the limited use pattern proposed.
- ⁷¹ **860 Series** – These data are not required based on the limited use pattern proposed.